

## CLAIMS

1. A light emitting device comprising:  
a light emitting element having an electric signal terminal,  
5 that is driven to emit light by an electric signal given from  
outside to the electric signal terminal; and  
a semiconductor chip for driving the light emitting element,  
including a light emitting element driving circuit and a  
temperature detecting element that are made of a semiconductor,  
10 the light emitting element driving circuit outputting and  
applying the electric signal to the electric signal terminal,  
the temperature detecting element detecting an ambient  
temperature,  
wherein the light emitting element is mounted on the  
15 semiconductor chip for driving the light emitting element, and  
is driven based on the temperature detected by the temperature  
detecting element.
2. The light emitting device according to claim 1, wherein  
20 at least part of the temperature detecting element is disposed  
in a light emitting element disposed region that is a minimum  
region including the light emitting element projected on the  
semiconductor chip for driving the light emitting element.
- 25 3. The light emitting device according to claim 1, wherein

the light emitting element driving circuit is formed in the semiconductor chip for driving the light emitting element excluding the light emitting element disposed region.

5     4.     The light emitting device according to claim 1, wherein  
the light emitting element is a plurality of visible light  
emitting elements that emit light at different wavelengths, and  
the semiconductor chip for driving the light emitting element  
drives the light emitting elements individually to maintain white  
10 balance of the plurality of light emitting elements based on  
the temperature detected by the temperature detecting element.

5.     A lighting equipment comprising:  
a plurality of the light emitting devices according to  
15 claim 1.

6.     A semiconductor chip for driving a light emitting element,  
on which the light emitting element can be mounted, the light  
emitting element having an electric signal terminal and driven  
20 to emit light by an electric signal given to the electric signal  
terminal from outside, the semiconductor chip comprising:

a light emitting element driving circuit that outputs and  
applies the electric signal to the electric signal terminal;  
and

25 a temperature detecting element that detects an ambient

temperature,

wherein the semiconductor chip drives the light emitting element based on the temperature detected by the temperature detecting element.

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7. The semiconductor chip for driving a light emitting element according to claim 6, wherein at least part of the temperature detecting element is disposed in a light emitting element disposed region which is a minimum region including the light emitting element projected on the semiconductor chip for driving the light emitting element.

8. The semiconductor chip for driving a light emitting element according to claim 6, wherein the light emitting element driving circuit is formed in the semiconductor chip for driving the light emitting element excluding the light emitting element disposed region.

9. The semiconductor chip for driving a light emitting element according to claim 6, wherein the light emitting element is a plurality of visible light emitting elements that emit light at different wavelengths, and the semiconductor chip for driving the light emitting elements drives the light emitting elements individually to maintain white balance of the plurality of light emitting elements based on the temperature detected by the

temperature detecting element.